

ABSTRACT OF THE DISCLOSURE

An emission control device and a method of operation thereof removes particulates from air. The air is directed into the device after finely divided mist has been added to the air. The air is abruptly forced to
5 change directions within the device and the added moisture is removed along with the particulates. A fan with inner vanes and outer blades is located within the device to direct the flow of air and to remove the moisture and particulates.